

**FEATURES:**

c

**CHARACTERISTICS:**

➤ **Configuration & Physical Character**

Conductor	Material	Bare Copper	
	Size	24 AWG	
	Construction	1/0.508 ± 0.02 mm	
Insulation	Material	HDPE	
	Thickness	MAX Average: 0.3 mm Min. at any point: 0.1 mm	
	Diameter	0.91 ± 0.06 mm	
	Colors	Blue/White-Blue Orange/White-Orange	
		Green/White-Green Brown/White-Brown	
	Elongation	Min. 300 %	
Tensile strength	Min. 1.682 Kg/mm <sup>2</sup>		
Sheath	Material	PVC	LS0H
	Thickness	Average: 0.50 mm	Average: 0.50 mm
		Min. at any point: 0.45 mm	Min. at any point: 0.45 mm
	Diameter	5.0 ± 0.4 mm	5.0± 0.4 mm
	Color	Gray	Gray
	Elongation	Min. 100%	Min. 125%
	Tensile	Min. 1.407 Kg/mm <sup>2</sup>	Min. 0.917 Kg/mm <sup>2</sup>

Aging at 100 °C for 168Hrs	Min. elongation retention:50% Min. tensile strength retention:75%	Min. elongation retention:75% Min. tensile strength retention:70%
Flame Test	Burning five times, every time is less than 60 second and paper flag can't be burned.	

➤ **Electrical Characters**

Spark Test	2000 ± 250 V ac
Dielectric Strength	2500 V dc / 3 seconds
Insulation Resistance Test	Min. 150 MO/Km
Conductor Resistance	Max.9.38 O/100m at 20°C
Resistance Unbalance	Max. 5%
Capacitance Unbalance	Max. 330 pF/100m
Mutual Capacitance	Max. 5600 pF/100m

*Remark: The product has no voltage itself and is used for products DC less than 30V.*

**APPROVAL:**

- UL/cUL Listed
- 3P certified ANSI/TIA/EIA-568-B.2 category 5e testing performance requirements
- ETL certified ANSI/TIA/EIA-568-B.2 category 5e testing performance requirements.

**APPLICATION:**

- Voice, T1, ISDN
- 10BASE-T, 100BASE-Tx Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- 100 VG 155/622 Mbps ATM
- 550 MHz Broadband Vedio

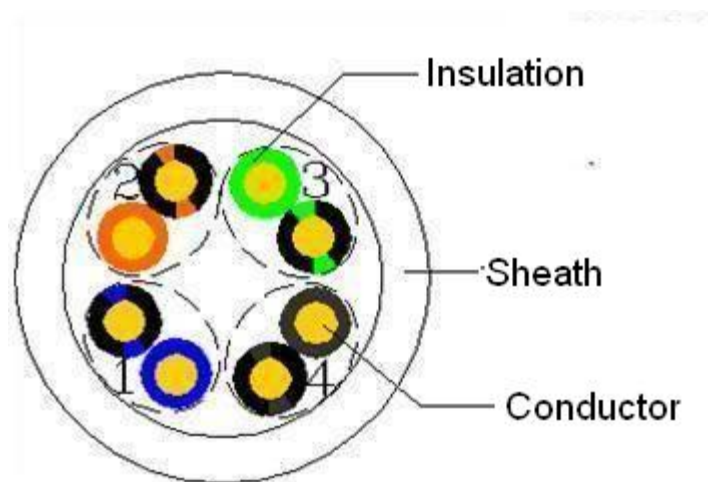
**ELECTRICAL PERFORMANCE:**

Impedance	722kHz	102 ± 15%
	1~125MHz	100 ± 15%



Freq (MHZ)	Insertion Loss (dB/100m)		NEXT (dB/100m)		PSNEXT (dB/100m)		ACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		Return Loss (dB/100m)	
	Normal	Typical	Normal	Typical	Normal	Typical	Normal	Typical	Normal	Typical	Normal	Typical	Normal	Typical
1	2.1	2.0	67.3	69.9	64.3	68.2	65.2	67.9	66.8	74.3	63.8	73.6	20.0	24.4
4	4.0	3.8	58.3	60.9	55.3	58.2	54.3	57.1	54.7	62.2	51.7	61.6	23.3	27.4
8	5.7	5.4	53.8	56.4	50.8	54.7	48.1	51.0	48.7	56.2	45.7	55.5	25.0	28.9
10	6.3	6.0	52.3	54.9	49.3	53.2	46.0	48.9	46.8	54.3	43.8	53.6	25.5	29.4
16	8.0	7.6	49.3	51.8	46.3	50.1	41.2	44.2	42.7	50.2	39.7	49.5	25.5	29.4
20	9.0	8.6	47.8	50.4	44.8	48.7	38.8	41.8	40.7	48.3	37.7	47.6	25.5	29.4
25	10.1	9.6	46.3	48.9	43.3	47.2	36.2	39.3	38.8	46.3	35.8	45.6	24.9	28.7
31.25	14.4	10.8	44.9	47.5	41.9	45.8	33.5	36.6	36.9	44.4	33.9	43.7	24.4	28.0
62.5	16.5	15.4	40.4	43.0	37.4	41.3	23.9	27.6	30.8	38.4	27.8	37.7	22.7	25.9
100	21.3	19.6	37.3	39.9	34.3	38.2	16.0	20.3	26.8	34.3	23.8	33.6	21.5	24.5
160	27.7	25.0	34.3	36.8	31.3	35.1	6.5	11.9	22.7	30.2	19.7	29.5	19.6	23.1

**DRAWING:**



**ORDERING INFORMATION:**

Part NO. 20514x115  
 Description Premium-Line category 5e UTP installation cable, 305m boxes, gray  
 X: jacket material 1:PVC 2: LSOH

Premium-Line Systems GmbH. Rosenheimer Str.89 D-83064 Raubling. Germany

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\*Picture for reference only

